

## ===== WPI =====

- TI - Powder-fluidity improving agent - contg. silica fine powder treated with diorgano:siloxane oligomer
- AB - J63054485 A powder-fluidity improving agent, comprises a silica type fine powder treated with a diorganosiloxane oligomer to be rendered hydrophobic. The diorgano-siloxane has the (I) where R = univalent, n = 1-15 integer, Q = halogen, OH or OR', R' = univalent hydrocarbon). The silica-type fine powder has a BET specific surface area of 180 (+/-) 100 m<sup>2</sup>/g, a C content of 5 +/- 3 wt.%, an apparent density of 75 (+/-) 35 g/l, a compression density of 200 (+/-) 35 mg/cm<sup>3</sup> when 1.5 g sample is compressed at 3.4 kg/cm<sup>2</sup> for 4 min., and a silanol titration amt. of 1.0 (+/-) 1.0 ml (the silanol titration amt.: such an amt. of 0.1N NaOH soln. that the PH of the dispersion of 2.5 g sample dispersed in a mixt. of 25 ml of ethanol and 75 ml of 25 wt.% NaOH aq. soln. is changed from 4.0 to 9.0. The silica type fine powder is a fumed silica.
- USE/ADVANTAGE - For use in fertilisers, foodstuffs, cosmetics, etc.. These articles added with the fluidity improving agent suffer substantially no changes in fluidity while stored for a long time. (0/0)
- PN - JP63054485 A 19880308 DW198815 007pp
- PR - JP7008981B B2 19950201 DW199509 C09K3/00 006pp
- PA - JP19860198381 19860825
- MC - (TORB ) TORAY SILICONE CO LTD
- DC - A06-A00E A12-V04 A12-W04B A12-W09 C04-C03D C05-B01B C12-J01 C12-L02 C12-M06 C12-M11G C12-N10 D03-H01 D08-B E05-E02C E31-P03
- IC - A26 C04 D13 D21 E11 E36
- AN - A61K7/00 ;A61K47/02 ;C01B33/18 ;C08J3/20 ;C08K3/36 ;C08K9/04 ;C09K3/00
- AN - 1988-103151 [09]

## ===== PAJ =====

- TI - FLUIDITY IMPROVER FOR POWDER
- AB - PURPOSE: To provide a fluidity improver which allows the fluidity of powder to be greatly improved and retained over a long period of time, consisting of fine silica powder made hydrophobic with a specified diorganosiloxane oligomer.
- CONSTITUTION: 1-50pts.wt. diorganosiloxane oligomer of the formula (wherein R is a monovalent hydrocarbon group; n is 1-15; Q is halogen, hydroxyl or OR<1>; and R<1> is a monovalent hydrocarbon group) is added to 100pts.wt. fine silica powder having a very low water content (e.g., fumed silica). The mixture is mixed until a homogeneous mixture is formed. The mixture is heated at 100-200 deg.C to make the powder hydrophobic, thus obtaining a fluidity improver having such characteristics that its specific surface area (BET method) is 180+ or - 100m<2>; its carbon content is 5+ or -3wt%; its apparent density is 75+ or -35g/l; its compression density is 220+ or -35mg/cm<2> when 1.5g of a sample is placed under a pressure of 3.4kg/cm<2> for 4min; and its silanol titer is 1.0+ or -1.0ml; the titer being expressed by the titer of an aq. soln. of 0.1N-NaOH required for changing the pH of a dispersion from 4.0-9.0. The dispersion obtd. by dispersing 2.0g of a sample in a liquid mixture of 25ml of ethanol and 75ml of a 20wt% aq. soln. of NaCl. 0.2-0.3wt% said fluidity improver is added to powder.
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- ABV - 012275
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- GR - C516
- PA - TORAY SILICONE CO LTD
- IN - KOBAYASHI HIDEKI
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